

What is claimed is:

1. A computer-implemented method of calculating lot hold time, comprising using a computer to perform the steps of:

5 inputting a plurality of identification parameters of a lot;
 calculating lot hold time of the lot according to the identification parameters; and
 outputting the lot hold time.

2. The computer-implemented method as claimed in claim 1, wherein the lot is a split child lot.

3. The computer-implemented method as claimed in claim 1, wherein the lot is passed through a first lot hold and a last lot hold, the first lot hold having a start time, the last lot hold having a
5 termination time.

4. The computer-implemented method as claimed in claim 1, wherein the lot is passed through a first customer lot hold and a last customer lot hold, the first customer lot hold having a customer start time,
5 the last customer lot hold having a customer termination time.

5. The computer-implemented method as claimed in claim 1, wherein the identification parameters comprise an identification code of the lot and a customer hold code of the lot.

6. The computer-implemented method as claimed in claim 1, wherein the calculating step further comprises:

calculating first hold time according to the
5 identification code and a reference
database;
determining if the lot is a child lot according
to the identification code;
calculating inherited hold time according to the
10 identification code and the reference
database if the lot is a child lot; and
outputting the sum of the first hold time and the
inherited hold time as the hold time if the
lot is a child lot or outputting the first
15 hold time as the hold time if the lot is not
a child lot.

7. The computer-implemented method as claimed in claim 6, wherein step of calculating the first hold time further comprises the steps of:

obtaining the start time of the first lot hold
5 from the reference database;
obtaining the termination time of the last lot
hold from the reference database; and
calculating the first hold time according to the
start time of the first lot hold and the
10 termination time of the last lot hold.

8. The computer-implemented method as claimed in claim 6, wherein the reference database is enabled by a MES database.

9. The computer-implemented method as claimed in claim 1, wherein the calculating step further comprises:

calculating first hold time according to the
5 identification code and a reference
database;
calculating customer hold time according to the
customer hold code and the reference
database;
10 determining if the lot is a child lot according
to the identification code;
calculating inherited hold time according to the
identification code and the reference
database if the lot is a child lot;
15 designating second hold time as the sum of the
first hold time and the inherited hold time
if the lot is a child lot; and
outputting the second hold time and the customer
hold time as the hold time if the lot is a
20 child lot or outputting the first hold time
and the customer hold time as the hold time
if the lot is not a child lot.

10. The computer-implemented method as claimed in claim 9, wherein step of calculating the first hold time further comprises the steps of:

obtaining the start time of the first lot hold
5 from the reference database;
obtaining the termination time of the last lot
 hold from the reference database;
calculating the first hold time according to the
 start time of the first lot hold and the
10 termination time of the last lot hold.

11. The computer-implemented method as claimed
in claim 9, wherein step of calculating the customer
hold time further comprises the steps of:

obtaining the customer start time of the customer
5 first lot hold from the reference database;
obtaining the customer termination time of the
 last customer lot hold from the reference
 database; and
calculating the customer hold time according to
10 the customer start time of the customer
 first lot hold and the customer termination
 time of the last customer lot hold.

12. The computer-implemented method as claimed
in claim 9, wherein the reference database is enabled
by a MES database.

13. A storage medium for storing a computer
program providing a method of calculating lot hold
time, the computer program comprising using a computer
to perform the steps of:

5 inputting a plurality of identification
 parameters of a lot;

calculating lot hold time of the lot according to
the identification parameters; and
outputting the lot hold time.

14. The storage medium as claimed in claim 13,
wherein the lot is a split child lot.

15. The storage medium as claimed in claim 13,
wherein the lot is passed through a first lot hold and
a last lot hold, the first lot hold having a start
time, the last lot hold having a termination time.

16. The storage medium as claimed in claim 13,
wherein the lot is passed through a first customer lot
hold and a last customer lot hold, the first customer
lot hold having a customer start time, the last
5 customer lot hold having a customer termination time.

17. The storage medium as claimed in claim 13,
wherein the identification parameters comprise an
identification code of the lot and a customer hold
code of the lot.

18. The storage medium as claimed in claim 13,
wherein the calculating step further comprises step
of:

calculating first hold time according to the
5 identification code and a reference
database;
determining if the lot is a child lot according
to the identification code;

calculating inherited hold time according to the
10 identification code and the reference
 database if the lot is a child lot; and
outputting the sum of the first hold time and the
 inherited hold time as the hold time if the
lot is a child lot or outputting the first
15 hold time as the hold time if the lot is not
 a child lot.

19. The storage medium as claimed in claim 18,
wherein the calculating step of the first hold time
further comprises the steps of:

obtaining the start time of the first lot hold
5 from the reference database;
obtaining the termination time of the last lot
 hold from the reference database; and
calculating the first hold time according to the
 start time of the first lot hold and the
10 termination time of the last lot hold.

20. The storage medium as claimed in claim 18,
wherein the reference database is enabled by a MES
database.

21. The storage medium as claimed in claim 13,
wherein the calculating step further comprises step
of:

calculating first hold time according to the
5 identification code and a reference
 database;

calculating customer hold time according to the
customer hold code and the reference
database;

10 determining if the lot is a child lot according
to the identification code;

calculating inherited hold time according to the
identification code and the reference
database if the lot is a child lot;

15 designating second hold time as the sum of the
first hold time and the inherited hold time
if the lot is a child lot; and

outputting the second hold time and the customer
hold time as the hold time if the lot is a
20 child lot or outputting the first hold time
and the customer hold time as the hold time
if the lot is not a child lot.

22. The storage medium as claimed in claim 21,
wherein step of calculating the first hold time
further comprises the steps of:

obtaining the start time of the first lot hold
5 from the reference database;

obtaining the termination time of the last lot
hold from the reference database; and

calculating the first hold time according to the
start time of the first lot hold and the
10 termination time of the last lot hold.

23. The storage medium as claimed in claim 21,
wherein step of calculating the customer hold time
further comprises the steps of:

obtaining the customer start time of the customer
5 first lot hold from the reference database;
obtaining the customer termination time of the
last customer lot hold from the reference
database; and
calculating the customer hold time according to
10 the customer start time of the customer
first lot hold and the customer termination
time of the last customer lot hold.

24. The storage medium as claimed in claim 21,
wherein the reference database is enabled by a MES
database.

25. A system of calculating lot hold time,
comprising:

an input module, inputting a plurality of
identification parameters of a lot;
5 a calculation module, calculating lot hold time
of the lot according to the identification
parameters; and
an output module, outputting the lot hold time.

26. The system as claimed in claim 25, wherein
the lot is a split child lot.

27. The system as claimed in claim 25, wherein
the lot is passed through a first lot hold and a last
lot hold, the first lot hold having a start time, the
last lot hold having a termination time.

28. The system as claimed in claim 25, wherein
the lot is passed through a first customer lot hold
and a last customer lot hold, the first customer lot
hold having a customer start time, the last customer
5 lot hold having a customer termination time.

29. The system as claimed in claim 25, wherein
the identification parameters comprise an
identification code of the lot and a customer hold
code of the lot.

30. The system as claimed in claim 25, wherein
the calculation module further comprises:

- 5 a first calculation module, calculating first
hold time according to the identification
code and a reference database;
- a determination module, determining if the lot is
a child lot according to the identification
code;
- 10 a child lot calculation module, calculating
inherited hold time according to the
identification code and the reference
database if the lot is a child lot;
- a child lot output module, outputting the sum of
the first hold time and the inherited hold
15 time as the hold time if the lot is a child
lot; and
- a non-child lot output module, outputting the
first hold time as the hold time if the lot
is not a child lot.

31. The system as claimed in claim 30, wherein the first calculation module further obtains the start time of the first lot hold from the reference database, obtains the termination time of the last lot hold from the reference database, and calculates the first hold time according to the start time of the first lot hold and the termination time of the last lot hold.

32. The system as claimed in claim 30, wherein the reference database is enabled by a MES database.

33. The system as claimed in claim 25, wherein the calculation module further comprises:

- a first calculation module, calculating first hold time according to the identification code and a reference database;
- a customer calculation module, calculating customer hold time according to the customer hold code and the reference database;
- a determination module, determining if the lot is a child lot according to the identification code;
- a child lot calculation module, calculating inherited hold time according to the identification code and the reference database if the lot is a child lot;
- a designation module, designating second hold time as the sum of the first hold time and

the inherited hold time if the lot is a
child lot;
20 a child lot output module, outputting the second
hold time and the customer hold time as the
hold time if the lot is a child lot; and
a non-child lot output module, outputting the
first hold time and the customer hold time
25 as the hold time if the lot is not a child
lot.

34. The system as claimed in claim 33, wherein
the first calculation module further obtains the start
time of the first lot hold from the reference
database, obtains the termination time of the last lot
5 hold from the reference database, and calculates the
first hold time according to the start time of the
first lot hold and the termination time of the last
lot hold.

35. The system as claimed in claim 33, wherein
the customer calculation module further obtains the
customer start time of the customer first lot hold
from the reference database, obtains the customer
5 termination time of the last customer lot hold from
the reference database, and calculates the customer
hold time according to the customer start time of the
customer first lot hold and the customer termination
time of the last customer lot hold.

36. The system as claimed in claim 33, wherein
the reference database is enabled by a MES database.

37. An IC product made of a method of calculating lot hold time, the method comprising the steps of:

5 inputting a plurality of identification parameters of a lot;
 calculating lot hold time of the lot according to the identification parameters; and
 outputting the lot hold time.

38. The IC product as claimed in claim 37, wherein the lot is a split child lot.

39. The IC product as claimed in claim 37, wherein the lot is passed through a first lot hold and a last lot hold, the first lot hold having a start time, the last lot hold having a termination time.

40. The IC product as claimed in claim 37, wherein the lot is passed through a first customer lot hold and a last customer lot hold, the first customer lot hold having a customer start time, the last
5 customer lot hold having a customer termination time.

41. The IC product as claimed in claim 37, wherein the identification parameters comprise an identification code of the lot and a customer hold code of the lot.

42. The IC product as claimed in claim 37, wherein the calculating step further comprises step of:

calculating first hold time according to the
5 identification code and a reference
 database;
determining if the lot is a child lot according
 to the identification code;
calculating inherited hold time according to the
10 identification code and the reference
 database if the lot is a child lot; and
outputting the sum of the first hold time and the
 inherited hold time as the hold time if the
 lot is a child lot or outputting the first
15 hold time as the hold time if the lot is not
 a child lot.

43. The IC product as claimed in claim 42,
wherein step of calculating the first hold time
further comprises the steps of:

obtaining the start time of the first lot hold
5 from the reference database;
obtaining the termination time of the last lot
 hold from the reference database; and
calculating the first hold time according to the
 start time of the first lot hold and the
10 termination time of the last lot hold.

44. The IC product as claimed in claim 42,
wherein the reference database is enabled by a MES
database.

45. The IC product as claimed in claim 37,
wherein the calculating step further comprises step
of:

calculating first hold time according to the
5 identification code and a reference
database;
calculating customer hold time according to the
customer hold code and the reference
database;
10 determining if the lot is a child lot according
to the identification code;
calculating inherited hold time according to the
identification code and the reference
database if the lot is a child lot;
15 designating second hold time as the sum of the
first hold time and the inherited hold time
if the lot is a child lot;
outputting the second hold time and the customer
hold time as the hold time if the lot is a
20 child lot or outputting the first hold time
and the customer hold time as the hold time
if the lot is not a child lot.

46. The IC product as claimed in claim 45,
wherein step of calculating the first hold time
further comprises the steps of:

obtaining the start time of the first lot hold
5 from the reference database;
obtaining the termination time of the last lot
hold from the reference database; and

calculating the first hold time according to the
start time of the first lot hold and the
10 termination time of the last lot hold.

47. The IC product as claimed in claim 45,
wherein step of calculating the customer hold time
further comprises the steps of:

obtaining the customer start time of the customer
5 first lot hold from the reference database;
obtaining the customer termination time of the
last customer lot hold from the reference
database; and
calculating the customer hold time according to
10 the customer start time of the customer
first lot hold and the customer termination
time of the last customer lot hold.

48. The IC product as claimed in claim 45,
wherein the reference database is enabled by a MES
database.